



# CLEAN COAL TODAY

A NEWSLETTER ABOUT INNOVATIVE TECHNOLOGIES FOR COAL UTILIZATION

## INDEX OF ARTICLES

The *Clean Coal Today* newsletter is a quarterly publication prepared and distributed by the U.S. Department of Energy (DOE) Office of Clean Coal (OCC). The newsletter objective is to inform OCC Program stakeholders of Clean Coal Power Initiative (CCPI), Power Plant Improvement Initiative (PII), and Clean Coal Technology (CCT) Demonstration Program project status and activities, as well as other major National Energy Technology Laboratory (NETL) activities, OCC research and development (R&D), environmental, and international programs. The newsletter features the latest coal-related R&D advances, and reports on timely policy and environmental topics. Regular columns include News Bytes, R&D Milestones achieved by in-house and contractor researchers, and International Activities. Periodic guest articles from stakeholders also are featured.

The newsletter reaches a broad customer/stakeholder audience including users and vendors of clean coal technologies, the coal R&D community, regulators and public policy makers, environmental organizations, financiers, exporters, public interest groups, and the public in general. *Clean Coal Today* is distributed to over 4,000 domestic and international readers, and can be found on the Clean Coal Technology Compendium (<http://www.netl.doe.gov/cctc>).

*Clean Coal Today* has provided readers with information on key actions that have brought coal into the limelight during the past year. The Administration has continued important work during 2004. Two meetings of the Carbon Sequestration Leadership Forum were held, one at the Ministerial level. DOE-NETL chaired their third carbon capture and sequestration conference, and advances were made in important research across the spectrum of coal R&D. A FutureGen strategy was submitted to congress, and progress continued under the Clean Coal Power initiative, with four projects selected under a second round of awards.

Beginning with Issue 1, published in 1990, this *Clean Coal Today Index of Articles* for quarterly issues 1-60 will assist readers to identify articles of interest in prior editions of *Clean Coal Today* newsletter. Pages 2-9 present articles on CCT projects, organized by category (Environmental Control Devices, Advanced Electric Power Generation, Coal Processing, and Industrial Applications). Pages 10-24 present all other articles arranged by subject area.

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• International CCT Finance Seminar		Fall 1996: 7
• Clean Coal Technology Workshop in India		Winter 1996: 5
• DOE Sponsors CCT and Coal Utilization Workshop		Winter 1997: 9
• Ukraine Conference Highlights Financial Recovery, Obstacles to Power Sector Development		Summer 1998: 12
• Advanced Coal-Based Power and Environmental Systems ' 98 Conference		Fall 1998: 7
• Pittsburgh Coal Conference – Panel Highlights Asia Energy Picture		Winter 1998: 5
• First Annual Meeting of U.S.-China Energy and Environmental Technology Center		Summer 1999: 9
• U.S./Japan Workshop Highlights R&D Cooperation		Summer 1999: 9
• U.S./Turkey Conference Highlights Fossil Energy		Fall 1999: 6
• Carbon Sequestration Workshop Focuses on R&D		Winter 1999: 8
• Kyoto Update: COP 5		Winter 1999: 9
• CoalTech ' 99 Conference in Jakarta, Indonesia		Winter 1999: 12
• DOE Participates in International Conference in India		Spring 2000: 10
• FE Hosts Annual NO <sub>x</sub> Specialty Conferences		Fall 2000: 6
• First National Conference on Carbon Sequestration to be Held		Winter 2000: 8
• Two Major Conferences in China Under DOE-MOST Protocol		Spring 2001: 8
• FE-NETL Provides Training for Indian Power Plant Managers		Spring 2001: 9
• Gasification Technologies Workshop for Environmental Regulators		Summer 2001: 8
• NETL Hosts Sensors and Controls Workshop		Summer 2001: 9
• First National Conference on Carbon Sequestration		Fall 2001: 3
• NETL Hosts Virtual Simulation Workshop		Winter 2001: 10
• Combustion Workshop Solicits Stakeholder Input		Spring 2002: 11
• FE Hosts Specialty Conferences		Summer 2002: 4
• Clean Coal Forum		Summer 2002: 6
• NETL Conference on PM <sub>2.5</sub> and Electric Power		Summer 2002: 9
• Mercury/PM <sub>2.5</sub> Conference Addresses Regulatory and Technology Issues		Fall/Winter 2002: 13
• Clean Coal Power Initiative Workshop		Fall/Winter 2003: 15
• FE Hosts Speciality Conferences		Fall/Winter 2003: 16

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<b>— CCT Program Direction —</b>		
• Fourth PON Release Near		Winter 1990: 5
• Comprehensive Reports to Congress for Clean Coal Technology Projects		Winter 1990: 11
• Round IV Update	Spring 1991: 7; Summer 1991: 7; Winter 1991: 3; Summer 1992: 7; Fall 1992: 5	
• Round V Update	Fall 1991: 3; Summer 1992: 4; Winter 1992: 5	
• Award-Winning Clean Coal Technology Demonstration Projects		Spring 1996: 3
• Completed Projects — Participants' Final Reports	Spring 1998: 11; Summer 1998: 16	
• Completed CCT Projects Summarized in New Publications		Fall 1999: 5
• Timeline of Active CCT Projects		Summer 2000: 15
• New Clean Coal Efforts Gain Momentum		Summer 2001: 1
• Progress Under Two Clean Coal Funding Vehicles		Winter 2001: 7
<b>— CCT Program Outreach —</b>		
• Debut of Clean Coal Today		Winter 1990: 1
• Clean Coal Outreach	Spring 1991: 1; Spring 1996: 18	
• Exhibits Accent Reducing Greenhouse Gas Emissions (Clean Coal Celebrates Earth Day 1994)	Spring 1994: 1	
<b>— CCT Successes and Commercialization —</b>		
• Introducing the Global CCT Opportunity (Fourth Annual CCT Conference)		Winter 1995: 1
• O'Leary Heralds Wabash Startup (Fourth Annual CCT Conference)		Winter 1995: 1
• CCT Commercialization Challenges (Fourth Annual CCT Conference)		Winter 1995: 4
• International CCT Deployment Needs Strong U.S. Support (Fourth Annual CCT Conference)		Winter 1995: 5
• Improving the "Enabling Environment" for CCTs (Fourth Annual CCT Conference)		Winter 1995: 8
• Expanding the International Market (Fourth Annual CCT Conference)		Winter 1995: 12
• O'Leary Heralds Bright Future for Coal		Fall 1996: 12
• Commercialization Updates/Briefs	Fall 1996: 3; Winter 1996: 3; Spring 1997: 6; Summer/Fall 1997: 3; Winter 1997: 3	
• Opportunities for IGCC		Winter 1996: 9
• DOE/Industry Seminars Identify CCT Opportunities and Challenges		Winter 1997: 4
• Challenges and Opportunities for Clean Coal Technology (Sixth Annual CCT Conference)		Summer 1998: 1
• Carbon Offsets Create Business Opportunities for CCTs (Sixth Annual CCT Conference)		Summer 1998: 10
• CCT Program Successes		Summer 1999: 11
• Clean Coal Technology in the Next Millennium (Seventh Annual CCT Conference)		Fall 1999: 3
• Successful Demonstration of SNCR at AEP's 600-MWe Cardinal Plant		Summer 2000: 6
• Powerplant Award, Multiple Visits Precede JEA Dedication		Fall/Winter 2002: 1
<b>— Cofiring —</b>		
• Coal Biomass Cofiring Effort Gains Momentum		Summer 1998: 4
• Biomass/Coal Cofiring Gains Favor Within Biomass Industry		Winter 1998: 7

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• Results Successful from Treated-Wood/Coal Cofiring Tests		<b>Spring 2000:</b> 8
• Coal, Tires, and Sawdust Move Tri-Firing Concept Forward		<b>Spring 2001:</b> 12
• Biomass Cofiring Opportunities Awards		<b>Spring 2001:</b> 13
<b>— Environmental Programs —</b>		
• Clean Coal Projects Join Integrated Effort to Obtain Toxic Air Pollutant Data		<b>Winter 1991:</b> 7
• Update — Clean Coal Air Toxics Testing Programs		<b>Winter 1993:</b> 3
• Air Toxics: Hazardous Emissions From Coal Combustion		<b>Spring 1997:</b> 8
• CCT NO <sub>x</sub> Controls Realize Commercial Acceptance		<b>Winter 1997:</b> 5
• Monitoring Effort Initiated Under PM <sub>2.5</sub> Program		<b>Summer 1998:</b> 8
• Carbon Offsets Create Business Opportunities for CCTs		<b>Summer 1998:</b> 10
• Novel Concepts Awards		<b>Summer 1998:</b> 14
• Kyoto Update: COP 5		<b>Winter 1999:</b> 9
• FE's Mercury Program – Quality Measurements and Cost-Effective Controls		<b>Summer 2000:</b> 8
• Regulatory Update		<b>Summer 2000:</b> 10
• PM <sub>2.5</sub> Monitoring Effort Advances		<b>Fall 2000:</b> 6
• FE Hosts Annual NO <sub>x</sub> Specialty Conferences		<b>Fall 2000:</b> 13
• Carbon Products Consortium Reviews Accomplishments and Future Research (guest article)		<b>Winter 2000:</b> 4
• DOE Stays Ahead of Mercury Regulation Momentum		<b>Spring 2001:</b> 5
• Sulfur Removal From Gasification-Derived Syngas		<b>Summer 2001:</b> 4
• Environmental Benefits Topical Report Published		<b>Summer 2001:</b> 6
• Gasification Technologies Workshop for Environmental Regulators		<b>Summer 2001:</b> 8
• TVA Mined Land Becomes Carbon Sink		<b>Fall 2001:</b> 8
• Ongoing Research Updates PM <sub>2.5</sub> Source Fingerprints		<b>Winter 2001:</b> 6
• DOE Examines Environmental Issues in By-Product Use		<b>Spring 2002:</b> 12
• Coalbed Methane — Enhancing Production and Sequestering CO <sub>2</sub>		<b>Summer 2002:</b> 7
• Clear Skies Initiative		<b>Summer 2002:</b> 8
• DOE Addresses Emerging Electric Utility Water Issues		<b>Spring 2003:</b> 8
• DOE Explores Externalities Cost		<b>Spring 2003:</b> 12
• Low-NO <sub>x</sub> Testing Produces Results		<b>Summer 2003:</b> 3
• DOE Mercury Control Progressing		<b>Spring 2004:</b> 3
• China Seeks U.S. De-NO <sub>x</sub> Technologies to Meet New Emission Regulations		<b>Summer 2004:</b> 8
• DOE Pursues Environmentally Friendly Zebra Mussel Control		<b>Fall 2004:</b> 4
• NETL Reviews Field Data on Mercury Speciation		<b>Fall 2004:</b> 6
• NETL Explores Mercury Measuring Techniques		<b>Winter 2004:</b> 4
• Thermoelectric Freshwater Needs		<b>Winter 2004:</b> 9
• NETL Assists in Measuring China's Mercury Emissions		<b>Winter 2004:</b> 12

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— Fuel Cells —		
• Fuel Cells — a Key to Vision 21		Summer 1999: 7
• SECA Seeks to Accelerate Fuel Cell Commercialization		Spring 2001: 10
• Kentucky Pioneer IGCC/Fuel Cell Project Underway		Spring 2003: 5
• SECA Core Technology Program Review Meeting		Fall/Winter 2003: 3
• World's Largest Clean Coal-Powered Fuel Cell		Fall 2004: 1
— Hydrogen —		
• DOE Offices Coordinating Hydrogen Activities		Summer 2001: 7
• DOE Announces New Hydrogen-Sequestration Efforts		Spring 2003: 2
• New Zealand's National Hydrogen Workshop		Spring 2003: 7
• DOE Highlights Growing Hydrogen Program		Fall/Winter 2003: 6
• Coal-Based Hydrogen Coproduction with CO <sub>2</sub> Capture		Fall/Winter 2003: 7
• NRC Report Cites Prime Hydrogen Role for Coal		Spring 2004: 10
• DOE Announces New Hydrogen-Sequestration Efforts		Spring 2003: 2
— International Activities —		
• DOE Report to Congress: CCT Expressions of Interest in Foreign Countries		Summer 1995: 7
• Polish Energy Experts Discuss Privatization (Fourth Annual CCT Conference)		Winter 1995: 7
• Clean Coal Outlook in Brazil		Spring 1996: 4
• FE Plays Key Role in WPF International Activities		Summer 1996: 7
• Clean Coal Goes to India		Summer 1996: 8
• U.S./Australia CCT Interests in Sync		Fall 1996: 4
• Fossil Energy Activity in China		Fall 1996: 5
• New China Laws to Reduce SO <sub>2</sub>		Fall 1996: 5
• International CCT Finance Seminar		Fall 1996: 7
• FE to Co-Chair New U.S.-India Coal Advisory Group		Winter 1996: 4
• Clean Coal Technology Workshop in India		Winter 1996: 5
• New Chinese CCT Project		Spring 1997: 4
• World Bank's Clean Coal Initiative		Spring 1997: 4
• U.S. AID Support in India		Spring 1997: 5
• U.S./Israel Technical Information Exchange		Spring 1997: 5
• DOE Signs Fossil Energy Annex with Italy		Summer/Fall 1997: 10
• DOE Supports Brazil's Quest for Coal		Summer/Fall 1997: 10
• DOE-Ukraine Clean Coal Task Force		Summer/Fall 1997: 10
• India Coal Washing Plant Receives Accolades		Summer/Fall 1997: 11
• DOE Sponsors CCT and Coal Utilization Workshop		Winter 1997: 9
• FE Advocates CCTs Through APEC		Winter 1997: 10



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• Korea Energy/Environment Workshop a Success		<b>Winter 1997: 10</b>
• U.S.-China Energy and Environmental Technology Center (The)		<b>Spring 1998: 6</b>
• International News Bytes		<b>Spring 1998: 7</b>
• DOE Supporting South Africa Energy Initiatives		<b>Summer 1998: 11</b>
• TDA Joins DOE in Supporting Brazil's Quest For Clean Energy		<b>Summer 1998: 12</b>
• Ukraine Conference Highlights Financial Recovery, Obstacles to Power Sector Development		<b>Summer 1998: 12</b>
• United Nations CCT Study Tour		<b>Summer 1998: 13</b>
• CCTs to be Evaluated for Philippines Palawan Province		<b>Fall 1998: 9</b>
• South Africa Project Recognized for Contributing to GHG Reduction		<b>Fall 1998: 9</b>
• Pittsburgh Coal Conference — Panel Highlights Asia Energy Picture		<b>Winter 1998: 5</b>
• APEC's Focus on Coal		<b>Winter 1998: 8</b>
• FE Supports Taiwan, China's CCT Projects		<b>Winter 1998: 9</b>
• Mexico FBC Options		<b>Spring 1999: 8</b>
• Multi-Fuel Reburning Holds Promise for Ukraine		<b>Spring 1999: 8</b>
• FE Outreach in Slovakia		<b>Spring 1999: 9</b>
• Fossil Energy Committed to International Energy Agency Goals		<b>Spring 1999: 10</b>
• DOE Plays Major Role in Reducing Emissions in Krakow, Poland		<b>Summer 1999: 8</b>
• First Annual Meeting of U.S.-China Energy and Environmental Technology Center		<b>Summer 1999: 9</b>
• U.S./Japan Workshop Highlights R&D Cooperation		<b>Summer 1999: 9</b>
• U.S./Turkey Conference Highlights Fossil Energy		<b>Fall 1999: 6</b>
• FE Visits Russia on Information Exchange Mission		<b>Fall 1999: 7</b>
• Recent FE Initiatives in India		<b>Fall 1999: 7</b>
• PCAST Supports International Energy Cooperation Programs		<b>Winter 1999: 10</b>
• Support for International Energy Cooperation Programs		<b>Winter 1999: 10</b>
• FE Regulates Electricity Trade with Mexico and Canada		<b>Winter 1999: 11</b>
• Joint Statement Signed for Technical Cooperation to Strengthen Russian Coal Sector		<b>Winter 1999: 11</b>
• CoalTech '99 Conference in Jakarta, Indonesia		<b>Winter 1999: 12</b>
• Triboelectrostatic Separation Applied to Slovakian Brown Coal		<b>Winter 1999: 12</b>
• DOE Participates in International Conference in India		<b>Spring 2000: 10</b>
• FE Shares Gasification Technology Options with Japan		<b>Spring 2000: 10</b>
• FE Assists South African Utility in Evaluating CCTs		<b>Summer 2000: 11</b>
• U.S. and China Sign Technology Protocol		<b>Summer 2000: 11</b>
• Presidential Mission to India Unveils Energy Efficiency Initiatives		<b>Summer 2000: 12</b>
• New IEA Clean Coal Centre Study Areas		<b>Summer 2000: 13</b>
• FE Hosts Foreign Service Officer Training Course		<b>Fall 2000: 10</b>
• India Greenhouse Gas Project to Include Regional Centres		<b>Fall 2000: 10</b>

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• APEC Coal Flow Seminar: A Tool for Regional Stability		<b>Fall 2000: 11</b>
• IGCC Protocol with India Signed		<b>Winter 2000: 10</b>
• International CO <sub>2</sub> Ocean Sequestration Field Experiment: 2000 Oceanographic Research Cruise		<b>Winter 2000: 10</b>
• Vietnam Emerging as a Global Coal Partner		<b>Winter 2000: 11</b>
• Information Exchange Through ICCR		<b>Winter 2000: 12</b>
• Two Major Conferences in China Under DOE-MOST Protocol		<b>Spring 2001: 8</b>
• FE-NETL Provides Training for Indian Power Plant Managers		<b>Spring 2001: 9</b>
• DOE Fossil Energy International World Wide Web Site		<b>Spring 2001: 9</b>
• APEC Exports Group on Clean Fossil Energy		<b>Summer 2001: 11</b>
• New Coal Ash Newsletter Launched in India		<b>Summer 2001: 12</b>
• Interagency Group Drafting Plan for Clean Energy Technology Exports		<b>Summer 2001: 13</b>
• NETL to Support TCAPP Activities in China		<b>Summer 2001: 13</b>
• China Meetings Advance Fossil Bilateral R&D Efforts		<b>Fall 2001: 1</b>
• U.S. and Canadian Cooperation on Carbon Sequestration Research		<b>Fall 2001: 12</b>
• NETL Supports Cooling Tower Efficiencies Training in India		<b>Fall 2001: 12</b>
• Albany Research Center Hosts Indonesian Engineers		<b>Fall 2001: 13</b>
• New APEC Report on CO <sub>2</sub> Reduction Options		<b>Winter 2001: 8</b>
• ICCR Meeting Discusses Member Energy Plans		<b>Winter 2001: 8</b>
• Engineers from India Trained in Utility Overhaul and Maintenance		<b>Spring 2002: 8</b>
• EETC Efforts for “Green” 2008 Beijing Olympics		<b>Spring 2002: 9</b>
• FE and Partners Explore Opportunities for CCTs in Thailand		<b>Summer 2002: 11</b>
• Meeting of Coal Advisory Group in Kolkata, India		<b>Summer 2002: 12</b>
• IEA Group Drafts Fossil Fuels Zero Emissions Strategy		<b>Summer 2002: 12</b>
• China EETC Workshop and Plant Tours		<b>Fall/Winter 2002: 8</b>
• Climate Technology Award Goes to NETL Partner		<b>Fall/Winter 2002: 9</b>
• IGCC Briefings Completed Under U.S.–China Protocol		<b>Fall/Winter 2002: 10</b>
• IEA Committee Discusses Progress under Multiphase Flow Agreement		<b>Fall/Winter 2002: 10</b>
• FE Assistant Secretary Mike Smith Visits China Spring		<b>Spring 2003: 1</b>
• New Zealand’s National Hydrogen Workshop		<b>Spring 2003: 7</b>
• NETL and Chinese Institute Cooperate on CO <sub>2</sub> Scrubbing Projects		<b>Summer 2003: 13</b>
• U.S.-UK Collaboration in Clean Coal Technology		<b>Summer 2003: 13</b>
• DOE and U.S.-China Conferences Focus on Coal		<b>Fall/Winter 2003: 1</b>
• India and United States Continue Collaboration		<b>Fall/Winter 2003: 9</b>
• FGD Training in China		<b>Fall/Winter 2003: 9</b>
• CSLF Meets in Rome		<b>Spring 2004: 8</b>
• U.S.-China Coordination Continues		<b>Spring 2004: 8</b>

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• FE Chairs APEC Expert's Group Meeting in Korea		<b>Spring 2004: 9</b>
• Sequestration Conference Reports on International CO <sub>2</sub> Capture Project		<b>Summer 2004: 3</b>
• China Seeks U.S. De-NO <sub>x</sub> Technologies to Meet New Emission Regulations		<b>Summer 2004: 8</b>
• FE-European Commission Meet to Discuss CO <sub>2</sub> Cooperation		<b>Summer 2004: 9</b>
• NETL Helps India with Fly Ash Problem		<b>Summer 2004: 9</b>
• China/U.S. Industrial Boiler Workshop a Major Success		<b>Fall 2004: 10</b>
• NETL Hosts Foreign Service Officer Coal and Power Training		<b>Fall 2004: 11</b>
• Cooperative Research with Norway		<b>Fall 2004: 11</b>
• CO <sub>2</sub> Sequestration Monitoring in Norway's North Sea		<b>Fall 2004: 12</b>
• Sequestration Leadership Forum Meets in Australia		<b>Winter 2004: 1</b>
• Japan's Clean Coal Cycle (C3) Initiative		<b>Winter 2004: 3</b>
• Australian Coal: A Sustainable Future		<b>Winter 2004: 8</b>
• NETL Assists in Measuring China's Mercury Emissions		<b>Winter 2004: 12</b>
• Japan's Clean Coal Day		<b>Winter 2004: 13</b>

### — Internet/Information Services —

• DOE TechLine Automated Fax Service	<b>Winter 1991: 6</b>
• FE International On-Line	<b>Fall 1996: 6; Winter 1996: 5; Spring 1997: 6; Summer 1998: 9</b>
• DOE Launches New Clean Coal Technology Web Site (CCT Compendium)	<b>Spring 1998: 9; Fall 1999: 13</b>
• Coal-Related Web Sites	<b>Spring 2000: 11</b>
• DOE Fossil Energy International World Wide Web Site	<b>Spring 2001: 9</b>

### — National Laboratory Activities —

• In Memoriam: Co-Workers from METC; Co-Workers from PETC; Close Associates from the Industrial Community	<b>Special Memorial Issue</b>
• FETC Celebrates 50th Anniversary	<b>Summer 1998: 13</b>
• Research & Development News	<b>Fall 1998: 10</b>
• FETC's "In-House" R&D	<b>Winter 1998: 1</b>
• New National Laboratory Established	<b>Spring 2000: 5</b>
• Albany Research Center Supports FE Mission	<b>Summer 2000: 4</b>
• NETL Fine Particulate Research	<b>Fall 2000: 8</b>
• NETL Hosts Sensors and Controls Workshop	<b>Summer 2001: 9</b>
• NETL Hosts Virtual Simulation Workshop	<b>Winter 2001: 10</b>
• Climate Technology Award Goes to NETL Partner	<b>Fall/Winter 2002: 9</b>
• Low-NO <sub>x</sub> Testing Produces Results	<b>Summer 2003: 3</b>
• Promising Pilot Tests for CMB Technology	<b>Summer 2003: 10</b>
• SECA Core Technology Program Review Meeting	<b>Fall/Winter 2003: 3</b>
• NETL Completes a Successful PDU Test	<b>Fall/Winter 2003: 11</b>

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• Revolutionary Advanced Energy System Modeling		Fall/Winter 2003: 13
• Computer Code Can Help Build Better Fluidized Beds		Spring 2004: 12
• Virtual Reality to Improve New Power Plant Designs, Lower Costs		Summer 2004: 4
• NETL Helps India with Fly Ash Problem		Summer 2004: 9
• Minority Interns Undertake Coal Research		Fall 2004: 9
• NETL Hosts Foreign Service Officer Coal and Power Training		Fall 2004: 11
— Power Plant Improvement Initiative —		
• Congress Enacts New Power Plant Improvement Initiative		Winter 2000: 1
• Progress Under Two Clean Coal Funding Vehicles		Winter 2001: 7
• First PPII Projects Successfully Negotiated		Fall/Winter 2002: 4
• Two New PPII Projects Move Forward		Summer 2003: 8
— Regulatory Issues —		
• Power Generation Competition Threatens Clean Coal (Fourth Annual CCT Conference)		Winter 1995: 9
• Domestic Regulatory Challenges (Fourth Annual CCT Conference)		Winter 1995: 11
• Fossil Energy Role in Deregulation		Fall 1999: 10
• Gasification Technologies Workshop for Environmental Regulations		Summer 2001: 8
• Mercury/PM <sub>2.5</sub> Conference Addresses Regulatory and Technology Issues		Fall/Winter 2002: 13
— State Activities —		
• North Dakota Clean Coal Activity		Spring 1997: 12
• Ohio Clean Coal Activity		Spring 1997: 12; Fall 1999: 12
• SSEB Legislative Digest		Spring 1997: 13
• Mississippi Supporting Innovative Eco-Industrial Complex (Red Hills EcoPlex)		Summer/Fall 1997: 7; Fall 1999: 12
• North Dakota Funding CCT Activities		Summer/Fall 1997: 7
• Illinois Supporting LEBS Project		Fall 1999: 12
• National Conference of State Legislatures/Utility Restructuring		Fall 1999: 12
• Wisconsin Plan Emphasizes Fuel Diversity		Winter 2001: 12
• Ohio, A Partner in Clean Coal		Fall/Winter 2002: 6
— Ultra-Clean Transportation Fuels Program —		
• Clean Fuels Awards		Fall 1998: 6
• Coal-Derived Fuels and the Ultra-Clean Transportation Fuels Initiative		Summer 1999: 3
• Fossil Energy's Transportation Fuels and Chemicals R&D Program		Spring 2000: 4
• Projects Advance Development of Ultra-Clean Transportation Fuels		Spring 2001: 3
— Vision 21 —		
• FE Unveils Vision 21 Concept for Closing Carbon Cycle		Summer/Fall 1997: 13
• FE Organizes Separations Workshop for Vision 21 System		Fall 1998: 12
• Advanced Turbines — Building Blocks of Vision 21		Spring 1999: 2

• Article Title	— Subject Area —	Issue : Page
• Virtual Energy Plants of the Future		<b>Summer 2001: 3</b>
• Membrane Improvements Support Gas Separation		<b>Winter 2001: 4</b>
• NETL Hosts Virtual Simulation Workshop		<b>Winter 2001: 10</b>
<b>— Other —</b>		
• In Memoriam: Co-Workers from METC; Co-Workers from PETC; Close Associates from the Industrial Community		<b>Special Memorial Issue</b>
• NCC Touts Future Role of Coal		<b>Summer/Fall 1997: 4</b>
• Solid Fuels and Feedstocks Program Builds on Past Successes		<b>Winter 1997: 7</b>
• New Coal Stakeholder: Coal Utilization Research Council		<b>Fall 1998: 8</b>
• By-Products Consortium Funds R&D Proposals		<b>Winter 1999: 4</b>
• FE Carries Out Membrane Technology R&D		<b>Winter 1999: 6</b>
• United States Energy Association's Focus on Coal		<b>Winter 1999: 6</b>
• UCIG Meets to Evaluate Coal-Derived Fuels Research		<b>Winter 1999: 9</b>
• Power Plant Hall of Fame		<b>Summer 2000: 3</b>
• Power Systems Development Facility – Ensuring Clean Affordable Power for the 21 <sup>st</sup> Century		<b>Fall 2000: 1</b>
• Latest EIA Coal Facts		<b>Spring 2001: 11</b>
• National Energy Policy Highlights		<b>Summer 2001: 2</b>
• Long-Running University Coal Research Program Advances Science of Coal		<b>Fall 2001: 9</b>
• NAS Review Validates FE Research Efforts		<b>Fall 2001: 10</b>
• EPRI — Bringing Advanced Clean Coal Technology to Market		<b>Spring 2002: 4</b>
• High-Temperature Materials Testing Record at CERF		<b>Spring 2002: 10</b>
• Energy & Environmental Research Center		<b>Spring 2003: 10</b>
• Consortium Makes Progress on Materials Development		<b>Spring 2004: 11</b>

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